

AVERKIN, A.A.; AYRAPETYANTS, A.V.; ILISAVSKIY, Yu.V.; LUTSENKO, E.L.;
SEREBRYANIKOV, V.S.

Effect of tensile stress and hydrostatic-type pressure on the
electroconductivity of thermally treated polyacrylonitrile.
Dokl. AN SSSR 152 no.5:1140-1142 O '63. (MIRA 16:12)

1. Institut poluprovodnikov AN SSSR i Institut neftekhimicheskogo
sintezza AN SSSR. Predstavлено академиком V.A.Karginym.

ACCESSION NR: AP4009151

S/0190/64/006/001/0086/2086

AUTHORS: Ayrapetyants, A. V.; Voytenko, R. N.; Davydov, B. E.; Krentsel', B. A.; Serebryanikov, V. S.

TITLE: Effect of orientation on electrical properties of thermally treated polyacrylonitrile

SOURCE: Vyssokomolekulyarnye soyedineniya, v. 6, no. 1, 1964, 86-88 and top half of insert between p. 86 & 87

TOPIC TAGS: polyacrylonitrile, fiber orientation, conductivity, activation energy, current carrier

ABSTRACT: The effect of thermally treated fiber orientation on the electrical properties of polyacrylonitrile has been investigated and data recorded as x-ray photographs. The specific resistance was measured by sounding probe techniques for these specimens which were heat-treated at 510, 620, and 700C respectively. The conditions of thermal treatment being the same, polyacrylonitrile fibers of greater orientation showed a greater conductivity. The activation energy was found to be independent of the degree of orientation. It may be assumed that the

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electroconductivity increases because of a possible decrease in number of intermolecular barriers and an increase in mobility of current carriers. Orig. art.
has: 3 figures.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petrochemical Synthesis)

SUBMITTED: 07Aug62

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 001

Card 2/2

AYFAPETYANTS, A.V.; VOYENKO, R.M.; DAVYDOV, B.E.; KRENTSEL', B.A.;
SEREBRYANIKOV, V.S.

Effect of orientation on the electrical properties of heat-
treated polyacrylonitrile. Vysokom. soed. 6 no.1:86-88 Ja'64.
(MIRA 17:5)

1. Institut neftekhimicheskogo sinteza AN SSSR.

ACCESSION NR: AP4042800

3/0062/64/000/007/1328/1330

AUTHOR: Ayrapetyants, A. V.; Vlasova, R. M.; Goyderikh, M. A.;
Davydov, D. E.

TITLE: Study of the electric properties of polyacrylonitrile during
heat treatment

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1964,
1328-1330

TOPIC TAGS: polyacrylonitrile, polyacrylonitrile heat treatment,
polyacrylonitrile pyrolysis, polyacrylonitrile electric properties,
polyacrylonitrile electric conductivity, ionic conductivity component,
electronic conductivity component, carrier, carrier effective
mobility, carrier concentration

ABSTRACT: Changes in the electric properties of polyacrylonitrile
during heat treatment at 100—145°C have been studied by determining
the changes in conductivity and thermoelectric force. In addition,
in the course of the pyrolysis IR spectra were studied, and the thermal
degradation of the polymer was evaluated by weight loss. The results

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ACCESSION NR: AP4042880

indicate that the electric conductivity of the products of the thermal conversion of polyacrylonitrile consist of an ionic and an electronic component. The ionic component, which causes the conductivity of the initial polymer, prevails in specimens treated at 150—300°C; it decreases with an increase in the temperature of the heat treatment. The electronic component increases with an increase in the heat-treatment temperature, owing to an increase in the number of conjugate double bonds. The conductivity increases during the heat treatment at 400°C; this increase is due to an increase of the effective mobility of carriers rather than to an increase in their concentration. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute of Semiconductors AN SSSR); Institut neftekhimicheskogo sinteza im. A. V. Topchiyev AN SSSR (Institute of Petrochemical Synthesis AN SSSR)

SUBMITTED: 20Dec63

ATD PRESS: 3056

ENCL: 00

SUB CODE: OC, EM

NO REF Sov: 005

OTHER: 000

Card 2/2

VLASOVA, R.N., AYRAPETYANTS, A.V.

Electric properties of pyrolyzed polyacrylonitrile. Elektrokhimiia
1 no.8:962-967 Ag '65.
(MIRA 18:9)

1. Institut poluprovodnikov AN SSSR.

L7701-66 EWT(I)/EWT(m)/ETC/ETG(n)/EWP(j)/I/EWA(h) IJP(c) GG/AT/RM
ACC NR: AP5027585 SOURCE CODE: UR/0364/65/001/011/1400/1403

AUTHOR: Ayrapetyants, A. V.; Vlasova, R. M.

ORG: Institute of Semiconductors, Academy of Sciences, SSSR (Institut poluprovodnikov Akademii nauk SSSR)

TITLE: Effect of hydrostatic pressure on the electrical properties of heat-treated polyacrylonitrile

SOURCE: Elektrokhimiya, v. 1, no. 11, 1965, 1400-1403

TOPIC TAGS: organic semiconductor, semiconducting polymer, electric conductivity, hydrostatic pressure, thermoelectric power

ABSTRACT: The effect of hydrostatic pressure on electrical conductivity, activation energy for conduction, and thermoelectric power has been studied for heat-treated polyacrylonitrile. Measurements were carried out for polyacrylonitrile fibers heat treated at 600 or 650°C and not subsequently degassed (p-type), in a special chamber (described earlier) with oil as the hydraulic fluid, at 20–100°C. Conductivity and thermoelectric power were plotted versus pressure, and log conductivity was plotted versus reciprocal temperature for different pressures. It was found that while conductivity increased considerably with pressure, thermoelectric power remained constant. Thermoelectric power rose with temperature and this temperature dependence was independent of pressure. Activation energy dropped with increasing pressure.

Cord 1/2 UDC: 621.315.592:547

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L 7700-66

ACC INR: AP5027585

These results were interpreted as confirming the conduction mechanism postulated earlier by the authors. Orig. art. has: 3 figures.

[S]

SUB CODE: OC, EM/ SUBM DATE: 23Dec64/ ORIG REF: 006/ OTH REF: 006/ ATD PRESS:

4143

Card 102

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102710004-6"

L 4201.66 EWT(L)/EPA(s)-2/EIT(R)/EMP(1)/T/EWA(h) AT/RM
ACC NN: AP5025389 SOURCE CODE: (R/0181/65/007/010/3079/3082

AUTHOR: Vlasova, R. M.; Ayrapetyants, A. V.

ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov
AN SSSR)

50
B

TITLE: Relationship between current carrier concentration and unpaired electron con-
centration in heat-treated polyacrylonitrile [144]

SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 3079..3082

TOPIC TNGS: organic semiconductor, semiconducting polymer, conduction mechanism

ABSTRACT: Electrical conductivity, thermoelectric power, and unpaired spin concentration have been measured for polyacrylonitrile heat-treated at 200 to 725°C (PAN200 to PAN725). This work was done to determine the role of unpaired spins in the conduction mechanism. On the basis of the experimentally observed correlation between thermoelectric power (α) and unpaired spin concentration (N) and on the basis of the temperature dependences of α and N , it is concluded that unpaired spins act as donor impurities. In PAN400 to PAN640, these impurities are fully ionized at room temperature and therefore N (i.e., impurity concentration) is equal to carrier concentration (N). In PAN200 to PAN350, these impurities are not ionized at room temperature and therefore $N \neq n$; n can be calculated from the formula for impurity conductivity. Orig. art. has: 2 formulas and 3 figures. [SM]

Card 1/1

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CIA-RDP86-00513R000102710004-6

L 4201-66

ACC NR AP5025389

SUB CODE: MT, EM/ SUBM DATE: 17 May 65/ ORIG REF 004/ OTH REF: 001/ ATD PRESS 442/

Card 1/2 DP

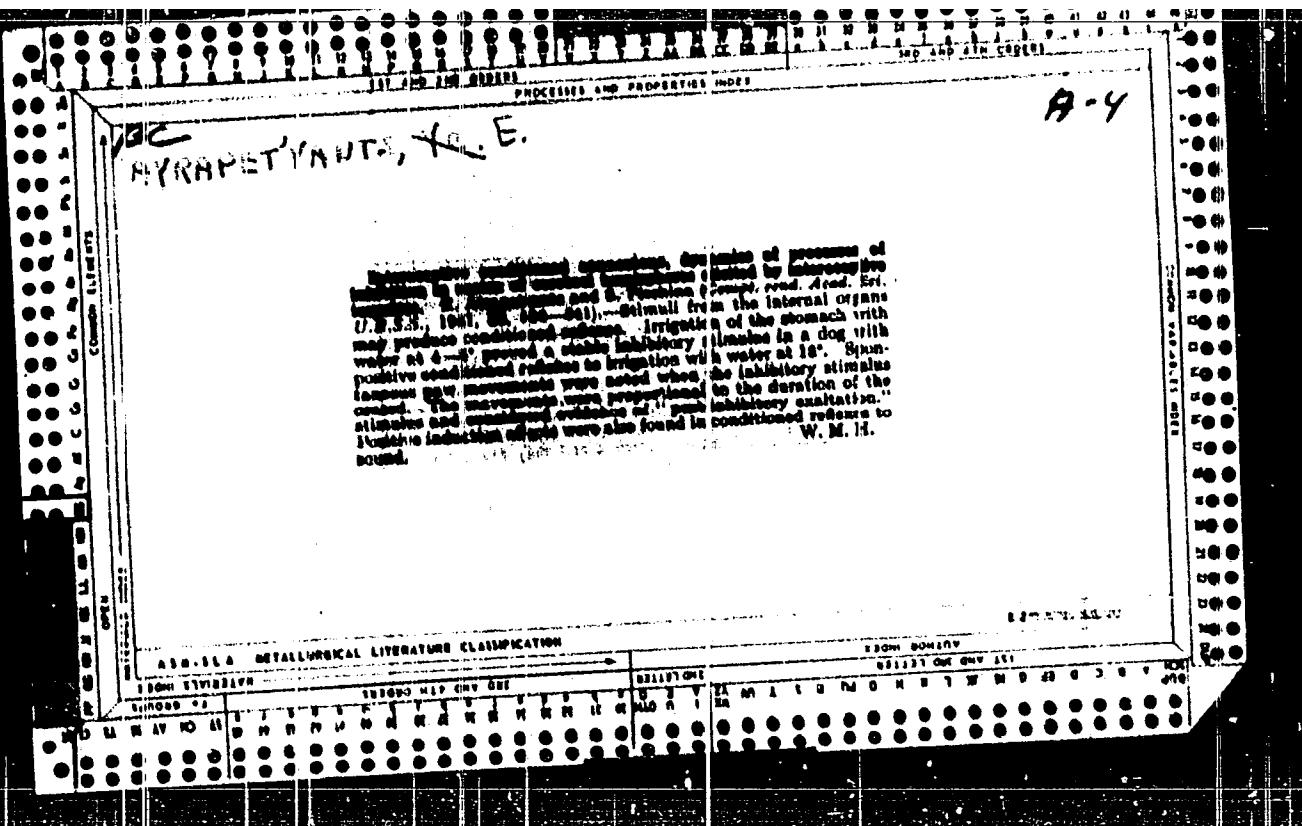
APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102710004-6"

AYRAPETIANTS, E.G.; KACHANOVA, Ye.A.

Complete analysis of technical calcium carbide. Zav.lab. 31
(MRA 18:12)
no.4:412-413 '65.

1. Gosudarstvennyy proyektnyy i nauchno-issledovatel'skiy
institut promyshlennosti sinteticheskogo kauchuka.



AIRAFET'YANTS, Ye. Sh.

AIRAFETIANTS, Ye. Sh.

"The doctrine of interoreception and the phychology of the subconscious" (p.273)
by E.Sh. Airafetants and K.N. Bykov

so: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XV, 1942, No. 3

AYREPET'YANTS, E.

USSR/Medicine - Animals - Experimentation
Medicine - Nervous System

Apr 48

"The Phenomenon of the Cortex Stereotypy Caused by Interoceptive Impulses," E.
Ayrepet'yants, I. Fel'berbaum, Lab of Higher Nervous Activity, Leningrad State U, 4 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LX, No 2. 3rd part b

Higher nervous activities are not only factors of external influences but also of those
uncalculable neural impulses originating within the organism. Describes results of
experiments conducted on a test dog. Submitted by Academician K. M. Bykov, 10 Feb, 1948.

PA 62T68

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CIA-RDP86-00513R000102710004-6"

AYRAFTIVANTS, E. Sh.

34125. O signalizatsii s apparatov polovoy sfery. V sb; Problemy
Kortiko-vistseral'noy natologii. M., 1949, s. 73-92

SO: Knizhnaya Letopis' № 6, 1955

AIRAPET'YANTS, V.S. SH.
AIRAPET'YANTS, E. SH.

"The general biological significance of the principle of temporary connections."
by Airapet'yants, E. Sh. (p. 386)

SO: Journal of General Biology (Zhurnal Obshchei Biologii) Vol. X, No. 5, 1949

AYRAPET'YANTS, E. Sh. and STEFANOVICH, E. V.

"Interoceptive Signalling and the Sympathetic Nerve System," Fiz.
Zhur., 35, No.5, 1949

Lab. of Interoceptors, Physiology Inst. im. I.P. Pavlov. AMS USSR

AYRAPET'YANTS, E.Sh.; FEL'BERBAUM, I.M.

Methods of investigation of interoceptive conditioned reflexes;
uterine fistula. *Fiziol.zh.SSSR* 37 no.2:240-243 Mar-Apr 51.
(CML 21:1)

1. Laboratory of Interoceptive Conditioned Reflexes, Institute of
Physiology imeni I.P.Pavlov of the Academy of Sciences USSR, Lenin-
grad.

AYRAPET'YANTS, B.Sh.

[Higher nervous function and the receptors of internal organs] Vysshiaia nervnaia deiatel'nost' i reseptory vnutrennikh organov. Moskva, Izd-vo Akademii nauk SSSR, 1952. 171 p.
(MLRA 6:5)

1. Akademiya nauk SSSR, Institut fisiologii im. I.P.Pavlova.
(Conditioned response)

AYRAPET'YANTS, E.Sh.

Principle of temporary associations in the physiology of interoception.
Vop. fiziol. int. no.1:5-23 '52.
(MLKA 6:8)
(Conditioned response)

AYRAPET'YANTS, Il.Sh., zaveduyushchiy; ZVORYNIN, V.N.; BYKOV, K.M., akademik, direktor; BRESTAIN, M.P., general-mayor meditsinskoy sluzhby.

Reception activity in the bladder, intestines and stomach in hypercapnia.
Vop.fiziol.int. no.1:24-36 '52.

(MLRA 6:8)

1. Laboratoriya kortiko-vistseral'noy fiziologii Instituta fiziologii tsentral'noy nervnoy sistemy Akademii meditsinskikh nauk SSSR (for Ayrapet'ynata).
2. Institut fiziologii tsentral'noy nervnoy sistemy Akademii nauk SSSR (for Bykov).

3. Barolaboratoriya Kafedry fiziologii Voenno-meditsinskoy akademii im. S.M.Kirova (for Brestkin).

(Nervous system) (Carbon dioxide--Physiological effect)

AYRAPET'YANTS, Ye. Sh. and ZVORYKIN, V. S.

"The Reaction of the Bladder and Intestines to Hypoxia of the Organism,"
Voprosy fisiol. interots., No.1, pp 37-49, 1952

Summary of report .. D 356476

ANDRIAYEN, O.A.; AYRAPET'YANTS, E.Sh., zavedayushchiy; BYKOV, K.M., akademik, direktor.

"Hysteriosis" occurring upon the stimulation of sensory nerves of internal organs. Vop.fiziol.int. no.1:50-63 '52. (MLRA 6:8)

1. Laboratoriya vysshey nervnoy deyatel'nosti Leningradskogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova. 2. Laboratoriya kortiko-vistse-ral'noy fiziologii Instituta tsentral'nyy nervnoy sistemy Akademii meditsinskikh nauk SSSR (for Ayrapet'yants). 3. Institut tsentral'noy nervnoy sistemy Akademii meditsinskikh nauk SSSR (for Bykov). (Nerves) (Hysteria)

ANDRIAYEN, O.d.; AYRAPET'YANTS, E.Sh., zavedyushchiy; BYKOV, K.M., akademik, direktor.

Changes in interoception in "hysteria." Ven. fisiol. int. no.1:64-74 '52.
(MLR 6:8)

1. Laboratoriya vyshey nervnoy deyatel'nosti Leningradskogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova. 2. Laboratoriya kortiko-vistse-skikh nauk SSSR (for Ayrapet'yants). 3. Institut tsentral'noy nervnoy sistemy Akademii meditsinskikh nauk SSSR (for Bykov).
(Nervous system) (Hysteria)

BULYGIN, I.A.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Conditioned interoceptive food reflexes from the bladder and stomach. Vop.
fiziol.int. no.1:85-90 '52.

(MLRA 6:8)

1. Laboratoriya interotseptivnykh usloviykh refleksov Instituta fiziologii
im. I.P.Pavlova Akademii nauk SSSR (for Ayrapat'yants). 2. Institut fiziolo-
gii im. I.P.Pavlova Akademii nauk SSSR (for Bykov).
(Conditioned response) (Bladder) (Stomach)

BUL'GIN, I.A.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Visceromotor reflex and its mechanism. Vop.fiziol.int.no.1:91-114 '52.
(MLR 6:8)

1. Laboratoriya interotseptivnykh uslovnykh refleksov Instituta fiziologii
im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yants). 2. Institut fiziolo-
gii im. I.P.Pavlova Akademii nauk SSSR (for Bykov). (Reflexes)

VASIL'EVSKAYA, N.Ye.; AYRAPET'YANTS, E.Sh., zaveduyushchiy.

Characteristics of the role of the time factor in the development of the effect resulting from stimulation of interoceptors. Vop.fiziol.int. no.1: 129-136 '52. (MLRA 6:8)

1. Laboratoriya vysshey nervnoy deyatel'nosti Fiziologicheskogo instituta Leningradskogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova. (Reflexes)

VASILEVSKAYA, N.Ve.; MYRAPET'YANTS, E.Sh., zaveduyushchiy.

Role of interoceptive impulses in temporary chain associations. Vop.fiziol.
int. no.1:137-144 '52. (MLRA 6:8)

1. Laboratoriya vysashchey nervnoy deyatel'nosti Fiziologicheskogo instituta
Leningradskogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova.
(Nervous system) (Conditioned response)

GAMBARYAN, L.S.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Conditioned interoceptive reflex in high resection of the posterior columns of the spinal cord. Vop.fiziol.int. no.1:166-174 '52. (MLD 6:8)

1. Laboratoriya interotseptivnykh uslovnykh refleksov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yants). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov).
(Spinal cord) (Conditioned response)

GRACHEV, I.I.; AYRAPET'YANTS, E.Sh., zaveduyushchiy.

Interoception in the mammary gland. Vop.fiziol.int. no.1:175-189 '52.
(MLRA 6:8)

1. Laboratoriya vyshey nervnoy deyatel'nosti Fiziologicheskogo instituta
Leningradskogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova.
(Mammary glands) (Nervous system)

GRACHEV, I.I.; MIRAPET'YANTS, E.Sh., zaveduyushchiy.

Effects of reflexes from the mammary gland upon the activity of the digestive apparatus. Vop.fiziol.int. no.1:190-201 '52. (MIRA 6:8)

1. Laboratoriya vyschey nervnoy deyatel'nosti Leningradskogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova.
(Reflexes) (Mammary glands) (Digestion)

DANILKOVA, L.K.; SELYA SHIK, Ye.L.; AYRAPET'YANTS, E.Sh., zaveduyushchiy.

Effect of interoceptive stimuli upon the cardiac activity in "hysteriosis."
Vop.fiziol.int. no.1:202-211 '52.
(MIRA 6:8)

1. Laboratoriya vysshey nervnoy deyatel'nosti Leningradskogo Gosudarstvennogo
ordena Lenina universiteta. 2. Laboratoriya kortiko-vistseral'noy fisiologii
Instituta fiziologii tsentral'noy nervnoy sistemy Akademii meditsinskikh nauk
SSSR. (Hysteria) (Nervous system) (Heart)

KRYZHANOVSKAYA, Ye.F.; GARMASHEVA, N.L., zaveduyushchiy; NIKOLAYEV, A.P., direktor;
AYRAPET'YANTS, B.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Data for the characteristics of uterine reception. Vop.fiziol.int. no.1:265-
272 '52.
(MLRA 6:8)

1. Laboratoriya patofiziologii TSentral'nogo instituta ukusherstva i gineko-
logii Akademii meditsinskikh nauk SSSR (for Garmasheva). 2. TSentral'nyy
institut ukusherstva i ginekologii Akademii meditsinskikh nauk SSSR (for
Nikolayev). 3. Laboratoriya interotseptivnykh uslovnnykh refleksov Instituta
fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yantsa). 4. Insti-
tut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov).
(Nervous system) (Uterus)

LOBANOVA, L.V.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Exteroceptive conditioned response to the dilation of the bladder. Vop. fiziol.int. no.1:311-322 '52.
(MLRA 6:8)

1. Laboratoriya interotseptivnykh uslovnnykh refleksov Instituta fiziologii I.P.Pavlova Akademii nauk SSSR (for Ayrapt'yants). 2. Institut fiziologii I.P.Pavlova Akademii nauk SSSR (for Bykov).
(Bladder) (Conditioned response)

MOISEYeva, N.A.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., akademik, d.
rektor.

Interoception of the ileocecal region and of the stomach. Vop.fiziol.int.
no.1:396-404 '52.
(MLRA 6:8)

1. Laboratoriya interotseptivnykh uslovnykh refleksov Instituta fiziologii
im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yants). 2. Institut fiziolo-
gii im. I.P.Pavlova Akademii nauk SSSR (for Bykov).
(Nervous system) (Stomach) (Intestines)

MOISEYeva, N.A.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Interoceptive conditioned reflex from the ileocecal region. Vop.fiziol.int.
no.1:405-410 '52.
(MLRA 6:8)

1. Laboratoriya interotseptivnykh uslovnnykh refleksov Instituta fiziologii
im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yants). 2. Institut fiziologii
im. I.P.Pavlova Akademii nauk SSSR (for Bykov).
(Conditioned response) (Intestines)

NIKITINA, I.P.; AYRAPET'YANTS, E.Sh., zaveduyushchiy.

Comparative evaluation of adaptation phenomena during stimulation of receptors of internal organs. Vop.fiziol.int. no.1:429-436 '52. (MLR 6:8)

1. Laboratoriya vysshey nervnoy deyatel'nosti Fiziologicheskogo instituta Leningradskogo Gosudarstvennogo ordena Lenina universiteta im.A.A.Zhdanova.
(Nervous system)

PAUPEROVA, G.F.; AYHAPET'YANTS, E.Sh., zaveduyushchiy.

Formation of a secondary exteroceptive conditioned reflex on the basis of a primary interoceptive one. Vop.fisiol.int. no.1:437-442 '52. (MLRA 6:8)

1. Laboratoriya vysshey nervnoy deyatel'nosti Leningradskogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova. (Conditioned response)

POGREBKOVA, A.V.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., direktor.

Respiratory intero- and exteroceptive conditioned reflexes and their inter-relationship. First report: Formation and properties of respiratory intero- and exteroceptive conditioned reflexes. Vop.fiziol.int. no.1:443-454 '52.
(MLR 6:8)

1. Laboratoriya interotseptivnykh uslovnykh refleksov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yants). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov).

(Conditioned response)

STEFANOVICH, Ye.V.; AYRAPET'YANTS, E.Sh., zaveduyushchiy.

Effect of the removal of ganglia of the sympathetic (upper cervical) and parasympathetic (gangl. nodosum) nervous system upon the character of reception of the internal organs. Vop.fiziol.int. no.1:501-504 '52.

(MLRA 6:8)

1. Laboratoriya vysshoy nervnoy deyatel'nosti Fiziologicheskogo instituta Leningradskogo Gosudarstvennogo ordena Lenina universiteta im. A.A.Zhdanova.
(Nervous system)

TENDLER, D.S.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Interrelationship of extero- and intercceptive conditioned reflexes in normal states and under functional disturbances of the thyroid gland caused by methythiouracil. Vop.fisiol.int. no.1:505-514 '52. (MLRA 6:8)

1. Laboratoriya interotseptivnykh uslovnnykh refleksov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yants). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov).

(Conditioned response) (Thyroid gland)

FEL'BERBAUM, I.M.; AYRAPET'YANTS, E.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Uterine reception in "hysteriosis." Vop.fiziol.int. no.1:515-523 '52.
(MLR 6:8)

1. Laboratoriya interotseptivnykh uslovnnykh refleksov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yants). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov).
(Uterus) (Nervous system)

AYRAFET'YANTS, E. Sh., zaveduyushchiy; LOBANOVA, L.V.; CHERKASHINA, R.A.

Data on the physiology of the internal analyzer in man. First report:
Internal signals in the excitation of receptors in the human bladder.
Trudy Inst.fiziolog. 1:3-20 '52. (MLR 6:8)
1. Laboratoriya interotseptivnykh uslovnnykh refleksov.
(Nervous system) (Bladder)

GAMBARYAN, L.S.; AYRAPET'YANTS, E.Sh., zaveshushchiy.

Problem of conditioned defensive reflexes. Trudy Inst.fiziolog. 1:73-84 '52.
(MLBA 6:8)

1. Laboratoriya interotseptivnykh uslovnnykh refleksov.
(Conditioned response)

FEL'BERBAUM, I.M.; AYRAPET'YANTS, ^{L.Y.E.S.H.} zaveduyushchiy.

Interoceptive conditioned reflexes from the uterus. Trudy Inst.fiziol. 1:
85-92 '52. (MLRA 6:8)

1. Laboratoriya interotseptivnykh uslovnykh refleksov.
(Conditioned response) (Uterus)

MOISEYeva, N.A.; AYRAPET'YANTS, E.Sh., zaveduyushchiy.

Effects upon the higher nervous function originating with gastric mechanical receptors. Trud' Inst. fiziolog. 1:93-102 '52. (MLH 6:8)

1. Laboratoriya interotseptivnykh uslovnnykh refleksov.
(Nervous system) (Stomach)

AYRAFT' YANTS, Ye. Sh.

Physiology of internal analyser. Zh. vyschel nerv. deiat. 2 no. 4:
481-500 Jul-Aug 1952. (CIML 23:3)

1. Institute of Physiology imeni I. P. Pavlov of the Academy of
Sciences USSR.

AYRAPET'YANTS, YE. Nt.

BYKOV, K. M.; AYRAPET'YANTS, YE. Sh.

Resolutions of the Sixth Session of the Learned Council on the Problems of I. P. Pavlov's Physiological Theories of the Presidium of the Academy of Sciences of the U.S.S.R., November 24, 1951, Fiziol. zhur., 38, no. 1, 1952.

SO: MLRA. May 1952

AYRAPET'YANTS, E.SH.

This document contains classified material from the files of the KGB. It has the rank of secret and identifies the author as being scientific works, popular editions, films, drawings, and textbooks which have been submitted for competition for Stalin Prizes for the years 1941-1950. Moscow, 10 Feb. - 1 Mar. 1954.

NAME

POSITION

INSTITUTION

Ayrapet'yants, E.Sh.

"The Higher Nervous Activ-
ity and Receptors of In-
ternal Organs"

Institute of Physiology imeni
Pavlov, Academy of Sciences
USSR

BYKOV, N.N., akademik; AYRAPET'YANTS, E. Sh.

Resolutions passed on May 23, 1953 by the Ninth Session of the Learned Council Attached to the Presidium of the Academy of Sciences of the U.S.S.R. on the problems of I.P.Pavlov's theories of physiology. Fiziol.zhur. 39 no.4:528-532 Jl-Ag '53. (MLRA 6:8)
(Physiology, Pathological) (Psychology, Physiological)

PAVLOV, Ivan Petrovich, 1849-1936; FEDOROVA-GROT, A.K.; AVRAPET'YANTS,
Ye.Sh., redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor

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professor, redaktor; GOLIKOV, N.V., professor, redaktor; ZHUKOV, Ye.E.,
professor, redaktor; MEL'NIKOVA, G.G., redaktor; VODOLAGINA, S.D.,
tekhnicheskiy redaktor

[Collected works] Sobranie sochinenii. Leningrad, Izd-vo Leningrad-
skogo univ. Vol.4. [Sketch of the physiology of the nervous system
(from the general course in physiology at the Leningrad State
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AYRAFET'YANTS, E. Sh.

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E.Sh.Ayrapet'yants)
(VISCOER---INNERVATION) (CONDITIONED RESPONSE.)

KLESHEHOVA, N.K.; AYRAPET'YANTS, E.Sh., redaktor; TARASOV, G.A., redaktor;
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2689.	New data on the physiology of internal and external trapezia by E.A. Bykov, Sov. Dokl., 1955, 9, p. 614-617. Review. External reflexes much more rapidly than with three-month-old puppies. In experiments of the animal's sensory apparatus and of the distal analysers it was established that the analyser is replaced to some extent by those receptors, the cutaneous, the vestibular. The extinction depends on the type of nervous system or on the method of excluding the analysers: if the exclusion of sight, hearing and smell, the conditioned		analysers. 1955, No. 8 (231).—The form of internal and conditioned reactions changes with age. Thus impulsive mechanical irritations of the stomach are brought out more rapidly with month-old than with three-month-old but to sound signals more slowly. In experiments of the animal's sensory apparatus and of the central function of the extensor (the extensor of the limb) the extinction of the extensor of the limb is more rapid than if they are excluded simultaneously. (Russian)	analysers. 1955, No. 8 (231).—The form of internal and conditioned reactions changes with age. Thus impulsive mechanical irritations of the stomach are brought out more rapidly with month-old than with three-month-old but to sound signals more slowly. In experiments of the animal's sensory apparatus and of the central function of the extensor (the extensor of the limb) the extinction of the extensor of the limb is more rapid than if they are excluded simultaneously. (Russian)					

USSR/Medicine - Physiology

FD-2717

Card 1/1 Pub. 33-26/28

Author : Ayrapet'yants, E. Sh., Leningrad

Title : What is correct and incorrect in reviews of issues of volumes III and IV "Complete Collection of Works" by I. P. Pavlov

Periodical : Fiziol. zhur. 41, 139-148, Jan-Feb 1955

Abstract : Gives results of a collation of issues of volumes III and IV "Complete Collection of Works" by I. P. Pavlov and other works by Pavlov, listing errata of volumes III and IV by volume, issue, page and line and giving their corrections. Also presents objections to specific criticisms of the accuracy of Pavlov's works by certain writers, identified in the article. Tables.

Institution :

Submitted :

AYRAPET'YANTS, B.Sh.

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Role of conditioned response in the development and changes of a patho-
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145-155 '56. (MLRA 10:1)

1. Laboratoriya interotseptivnykh uslovnnykh refleksov Instituta
fiziologii imeni I.P.Pavlova akademii nauk SSSR. 2. Laboratoriya
vysshykh nervnykh deyatel'nostei Leningradskogo Gosudarstvennogo ordena
Lenina universiteta imeni A.A.Zhdanova. Zaveduyushchiy - B.Sh.

Ayrapet'yants.

(NERVOUS SYSTEM) (RECEPTORS (NEUROLOGY))

~~AIRAPET'YANTS, H. Sh., TSOKALLO, G. I.~~

"Modern concepts of the mechanism of the action of narcotics and stimulants" by S.IA.Arbuzov. Reviewed by H.Sh.Airapet'iants,
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1075-1077 D '56. (MIRA 10:2)

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I.P.Pavlova AN SSSR, Leningrad.
(RESPIRATION, function tests
Appar. & method for study in dogs)

SOLOV'YEV, A.V., otvetstvennyy redaktor; AYRAPETIYANTS, I.Sh., redaktor;
BIRYUKOV, D.A., redaktor; VLADIMIROV, G.Ye., redaktor; KOLOSOV, N.G.,
redaktor; KRAZUSKIY, V.K., redaktor; KURTSIN, I.T., redaktor;
MAYJEROV, F.P., redaktor; OL'NYANSKAYA, R.P., redaktor; RIEKLI, A.V.,
redaktor; CHERNIGOVSKIY, V.N., redaktor; FEDOROVA-GROT, A.K.,
redaktor; BARSUKOVA, Z.I., redaktor Izdatel'stva; KRUGLIKOV, N.A.,
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632 p.
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1. Akademiya nauk SSSR. Institut fiziologii.
(NERVOUS SYSTEM)

USSR/Human and Animal Physiology (Normal and Pathological)
Nervous System. Higher Nervous Activity. Behavior. T

Abs Jour : Ref Zhur Biol., No 6, 1959, 27038

Intestinal loop (15 per min). After formation of a conditioned alimentary reaction to flexing of the paw, the very first stimulation of interoceptors induced flexion of paw and subsequent conditioned-reflex salivation: stimulation of interoceptors not reinforced by food transformed itself into the signal of alimentary reaction. Prolonged preservation of a complex three-part chain association was a difficult problem for the animal; after 12 applications of blowing up the intestine without reinforcement, manifestations of neurosis were discovered. -- K.S. Ratner.

Card 2/2

- 114 -

EXCERPTA MEDICA SEC 8 Vol 12/2 Neurology Feb 59

757. CORTICAL CONTROL OF VESTIBULAR REACTIONS AND RELATED PROBLEMS (Russian text) - Arapetyants E.S. and Kislyakov V.A. - USP, SOVR, BIOL, 1957, 43/3 (292-304)

Experimental data pointing to the existence of cortical control of the vestibular reactions are described. The regulatory mechanism acts by varying the degree of inhibition. Various facts point to the cortical centre of the vestibular analyzer being situated in man and higher animals in the superior temporal convolutions. A series of investigations in which vestibular stimulation showed a number of defensive or feeding reactions is described. The occurrence of those reactions is by itself a proof of the cortical control of vestibular function. Another proof is provided by the possibility of establishing conditioned reflexes conjugated with unconditioned vestibular reactions. One of the most important factors, as far as the vestibular apparatus is concerned, is its close relationship with other analyzers. The vestibular apparatus is not the only part of the CNS concerned with posture and equilibrium.

Arapetyants - Moscow

AYRAPET'YANTS, N.Sh. (Leningrad)

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1117-1129 D '57. (MIRA 11:3)

(NERVOUS SYSTEM, physiology,
hysteria-like response after prolonged stimulation of
sensory nerve (Rus))

AYRAPET'YANTS, E.SH.

20-5-65/67

AUTHOR AYRAPET'YANTS E.Sh., LEBEDEVA L.I.
TITLE Sugar Level of Blood and Insulin Regulation in the Case of Hysteriosis.
(Uroven' soderzhaniya zkhara v krovi i insulinnaya reguljatsiya pri hysterioze -Russian)
PERIODICAL Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 5, pp 1174-1176 (U.S.S.R.)
Received 7/1957
Reviewed 8/1957

ABSTRACT In a number of investigations of the first mentioned author proof was given of a reflex connection between the condition of hysteriosis and the reception of inner organs. The greatly increased excitability of the nerve centres, which is caused by a lasting (tetanizing) irritation of a sensory nerve (somatic or vegetative), produces an abrupt functional shifting of the functions of the organs in the visceral area. The new experimental material gives universal importance to the phenomena connected with hysteriosis. That means that also the mechanisms of nerves are disturbed which regulate the metabolic processes, and especially the special-hormonal effects. Thus, the influence of secretin, which stimulates pancreatic secretion humerally, is either intensified or suppressed in the various stages of hysteriosis. In the present work the experiments are described which discovered this sort of regularities in relation to one of the stages of carbohydrate-metabolism, i.e. the entrance of glucose into blood. The experiments were carried out with 27 cats under narcotics. Hysteriosis was caused by a lasting tetanizing irritation of the small peroneal nerve by means of induced current, which was 3 cm higher than the threshold value. The sugar in blood (taken from the jugular vein) was determined according to HAGEDORN.

Card 1/3

Sugar Level of Blood and Insulin Regulation in the Case of 20-5-65/67
Hysteriosis.

liver are accepted.
(With 4 ill., 5 citations from Slavic publications).

ASSOCIATION Laboratory for Interoceptive-Dependent Reflexes of the Institute for
 Physiology "I.P.PAVLOV" of the Academy of the Science of the U.S.S.R.
PRESENTED BY BYKOV K.N., Member of the Academy
SUBMITTED 15.1.1957
AVAILABLE Library of Congress
Card 3/3

AYRAPET'YANTS, E.Sh.; POGREBKOVAM, A.V.; SAZON'MOV, V.I [deceased]

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Report No.3: Cortical regulation of gastric functions under
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E. Sh. Ayrapet'yants) Instituta fiziologii im. I.P. Pavlova AM
SSSR.
(STOMACH--DISEASES) (CONDITIONED RESPONSE)

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7:13-22 '58.

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AN SSSR.
(STOMACH--DISEASES) (CONDITIONED RESPONSE)

AYRAPET'YANTS, N. Sh.; UGOLEV, A.M.

Materials on the physiology of the internal analyzer in man. Report No.5: Reflex influences from the bladder of man in a conscious state and in hypnosis. Trudy Inst. fiziologii 7:23-30 '58. (MIRA 12:3)

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(BLADDER) (CEREBRAL CORTEX)

AYRAPET'YANTS, E.Sh.; BIANKI, V.L.

Interoceptive conditioned reflexes following separation of the
cerebral hemispheres. Uch. zap. IgU no.239:59-63 '58.
(MIRA 12:1)

1. Laboratoriya fiziologii vysshey nervnoy deyatel'nosti Fizio-
logicheskogo instituta Leningradskogo gosudarstvennogo universi-
teta i laboratoriya interotseptivnykh uslovnykh refleksov Instituta
fiziologii AN SSSR.

(CONDITIONED RESPONSE)

AYRAPET'YANTS, E.Sh.; PRUDTSOVSKAYA, L.S.

Materials on conditioned reflexes in hens. Uch. zap. IgU no.239:
64-68 '58. (MIRA 12:1)

1. Laboratoriya fizioligii vysshey nervnoy deyatel'nosti Fiziolicheskogo instituta Leningradskogo universiteta i laboratoriya interseptivnykh uslovnykh refleksov Instituta fizioligii AN SSSR.
(CONDITIONED RESPONSE)

A Y R A P E T ' Y A N T S , E. Sh.

*Abstracts from Investigations on
Central Localization of Internal Signals*
(After *Int. Physiol., USSR Acad.
Sci. Congress Conf. Rome*)

1. In our communication at XX Congress the new data concerning cortical and spinal function of compensation and substitution were presented. It was pointed out at the meeting that the main (internal) signals in this mechanism. This task, with our first investigations on cortical afferent representation of internal organs. Two methods were employed in these experiments: conditioning and certain cortical ablations. In accordance with our data and those of some other authors, the following hypothesis was offered: in central links of internal analysis in their morpho-functional structure are connected in constant bonds

*Abstracts from the Program of the XXI
USSR Congress of Physiologists*

(in the form of a module constellation). They are localized mostly in the anterior part of the cerebral cortex. Our investigation on this subject, carried out during last three years, confirmed this conception. The new data concerning the problem of functional structure of the module studies were obtained. In the present report we describe the main results of these experiments in dogs carried out with my collaborators: G. Adam, N. V. Sil'verskaia, L. Ganturian, N. Zulikova, I. Kiblakov, L. Lebedeva, K. Uchkin, I. Lofanova, L. Shi-U. N. Matveeva, A. Pogorelova, G. Pukinskaja, T. Sonchenko, P. Tuluber, L. Figurna.

II. The results obtained are as follows:

1. The bilateral ablations of visceral and peritoneal areas produce temporo-rhythmical or a remarkable inhibition of alimentary and motor defensive interneuritic conditioned reflexes, elaborated to mechanical stimulation of stomach, intestine, bladder and uterus. The analysis of the positive and inhibitory visceral temporal come from and normal interaction of extero- and internal signals are impaired for a long period. The ablation induces obvious changes in the function of the chemical analyzer: the adequate information about an overflow of the organism with acid, alk. & glucose is greatly disturbed. The removal of the motor cortex in puppies does not produce marked changes in the inter-scapite signalization. The ablation of parts of the cingulate gyrus affects the inter-scapite conditioned reflexes as well.

2. EEG records from the ear cortex in chronic experiments on rats has revealed the following: a) the mechanical stimulation of the mouth and inner ear evokes increased frequency of impulses in waves of high amplitude; b) the intra-luminal acid and alkali solutions into the stomach and intravenously produces slow rhythm alternating with faster oscillations of high amplitude.

3. A complicated form of integration of the vestibulo- and motor eye area was shown after the removal of labyrinth and motor areas in different successions. A significant part in this integration belongs to certain apparatus of cortical level, which provide the ability of statistic functions.

4. After the combined excitation of posterior columns of the spinal cord and of the cerebellum, the conditioned tonic reflexes are preserved and can be elaborated

again. The removal of cerebellum in combination with amputation of two extremities for a long period prevents the animal from locomotion. The facts point out at the existence in the conductive system of reserve proprioceptive pathways.

5. In adult dogs after the bilateral gross extirpation of the cerebral cortex, the interneuritic conditioned reflex (as well as gastro-scapite) cannot be elicited in spite of about 320 pairings of the conditioned stimulus with electrical stimulation of the extremitiy.

6. When speaking about the special function of motor and premotor cortices in the analytical and syncretic activity concerning "internal events" in the organism, it is necessary to emphasize the substantiation function of certain links of either analytical Pavlov's general principles of dynamic localization receives not only a new confirmation, but also new data on specificity of its application. Further investigations on the structure of internal analyzers and particularly of the corresponding nuclei of subcortical region is our current task.

*Abstract from the Program
of the 2nd Congress of
Physiological Sciences,
Buenos Aires, 9-15
Aug 1954.*

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Ivan Alekseevich Vetiukov. Fiziol. zhur. 45 no.5:628-630 My '59.
(BIOGRAPHIES, (MIRA 12:7)
Vetiukov, Ivan A. (Rus))

AYRAPET'YANTS, E.Sh.

Comparative study of the principle of substitution in interanalyzer
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(ORIENTATION) (NERVOUS SYSTEM—WOUNDS AND INJURIES)

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Development of spatial analysis and paired work of the forebrain.
Vop. srav. fiziol. anal. no. 1:41-46 '60. (MIRA 14:4)

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of Leningrad.

(SPACE PERCEPTION) (BRAIN)

AYRAPET'YANTS, E.Sh.; KISLYAKOV, V.A.; LOFANOVA, L.V.; MOISEYEVA, N.A.

Role of the motor analyzer in the compensatory function of the cerebral cortex. Vop. srav. fiziol. anal. no. 1:47-54 '60. (MIRA 14:4)

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(CONDITIONED RESPONSE) (CEREBRAL CORTEX) (RECEPTORS (NEUROLOGY))

AYRAPET'YANTS, -E.Sh.; MOISEYEVA, N.A.

Regularity of hysteriosis in ontogenesis. Nerv. sist. no. 2:76-81
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(NERVOUS SYSTEM)

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Bile secretion in hysteresis. Trudy Inst. fiziolog. 9:161-163 '60.
(MIRA 14:3)

1. Laboratoriya interotspektivnykh uslovnykh refleksov (zaveduyushchiy
E.Sh. Ayrapt'yants) Instituta fiziologii im. I.P. Pavlova.
(BILE) (NERVOUS SYSTEM)

AYRAPET'YANTS, E.Sh.; VASILEVSKAYA, N.Ye.; SOTNICHENKO, T.S.

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(CONDITIONED RESPONSE) (BRAIN)

AYRAPET'YANTS, E.Sh.

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Leningrad.
(CEREBRAL CORTEX)

AYRAPET'YANTS, E.Sh.; LEBEDEVA, L.I.

Modified method for the application of uterine fistulas in dogs.
Fiziol. zhur. 46 no.6:759-760 Je '60. (MIRA 13:8)

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I.P.Pavlov Institute of Physiology, The U.S.S.R. Academy of Sciences,
Leningrad.

(UTERUS)

(FISTULA)

(SURGERY, EXPERIMENTAL)

AYRAFET'YANTS, E.Sh.

Physiological mechanism of spatial analysis. Fiziol.zhur. 46 no.8:
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State University, Leningrad.

(SPACE PERCEPTION)

AYRAPET'YANTS, E.Sh.

Some problems in the comparative physiology of conditioned reflexes;
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(CONDITIONED RESPONSE)

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"On the visceral cortex."

Report submitted, but not presented at the 22nd International
Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

AYRAPET'YANTS, Ervand Shamirovich; GRACHEV, Iosif Ivanovich;
TULBAYEV, Peysen Tulbayevich; VASII'YEVA, Z.A., red.
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Respiratory analyzer. Zhur. vys.nerv. deiat. 13 no.2:
218-227 Mr-Apr'63. (MIKA 1689)

1. Laboratory of Comparative Physiology of Internal Analyzers,
Pavlov Institut of Physiology , U.S.S.R. Academy of Sciences,
Leningrad.

(RESPIRATION) (BRAIN—LOCALIZATION OF FUNCTIONS)

AYRAPET'YANTS, E.Sh.

Sechenov's theory on reflex space perception and several ways
of its modern development. Zhur. vys. nerv. deiat. 13 no.5:
831-844 S-0'63
(MIRA 1612)

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Sciences, Leningrad.

AYRAPET'YANTS, E.Sh.; BIANKI, V.L.

Paired activity of the cerebral hemispheres and some aspects of
the higher nervous activity in animals. Zhur. vys. nerv. deiat.
14 no. 2:247-262 Mr-Ap '64. (MIRA 17:6)

1. Chair of Physiology of Higher Nervous Activity, Leningrad Uni-
versity.

AYRAPET'YANTS, E.Sh.; BATUYEV, A.S.

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Inst. 1948-49 '63. (Mfg 17:8)

AVRAPET'YANTZ, E. Sh. (Leningrad)

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state of knowledge pertaining to them. Fiziol. zhur. 49 no.11:
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Some regularities of hysteriosis in the spinal cord. Nerv. sist.
no.4:61-64 '63 (MIRA 18:1)

1. Fiziologicheskiy institut Leningradskogo universiteta.

ATRAPET'YANTS, E.Sh.; KOBOROV, I.I.

Role of adrenaline secretion in the developmental mechanism
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olism. Nerv. sist. no.5:51-58 '66. (MDA 18:3)

1. laboratorii fiziologii vyshey nervnoy aktivnosti Leningradskogo gosudarstvennogo universiteta i interseptivnykh uslovnnykh refleksov Instituta fiziologii im. I.M. Selevina AN SSSR.

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1. Institut fiziologii im. I.P.Pavlova AN SSSR i Leningradskiy
universitet, Leningrad, SSSR.

GULYAYEV, P., doktor biolog. nauk; AYRAPETYANTS, M. kand.med.nauk;
IVANITSKIY, A., kand. med. nauk; SARADZHEV, N.; NOVAK, V., vrach;
MESSING, Vol'f

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1. Zaveduyushchiy laboratoriyye fiziolicheskoy kibernetiki
Leningradskogo universiteta (for Gulyayev). 2. Institut vysshey
nervnoy deyatel'nosti Akademii nauk SSSR (for Ayrapetyants, Ivanit-
skiy). 3. Institut normal'noy i patologicheskoy fiziologii
Akademii meditsinskikh nauk SSSR (for Saradzhev).
(THOUGHT TRANSFERENCE)

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